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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,113	06/21/2001	Yozo Shoji	210095US2	4712
22850	22850 7590 08/10/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			AL AUBAIDI, RASHA S	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2642	
		DATE MAILED: 08/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/885,113	SHOJI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Rasha S. AL-Aubaidi	2642			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timey within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 17 M	lay 2005.				
_	action is non-final.				
3) Since this application is in condition for alloward closed in accordance with the practice under E	•				
Disposition of Claims					
4) ☐ Claim(s) 2,3,5 and 6 is/are pending in the apple 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 2,3,5 and 6 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on <u>21 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	• •			
Priority under 35 U.S.C. § 119	· (1)				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been received in PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ate atent Application (PTO-152)			
Paper No(s)/Mail Date 4.12/18/03.	6) Other:	atom Application (FTO-102)			

#### **DETAILED ACTION**

#### Response to Amendment

1. Applicant's amendment filed on May 17, 2005 has been entered. Claims 2-3 and 5-6 have been amended. No claims have been canceled. No claims have been added. Claims 2-3 and 5-6 are still pending in this application, with claims 2, 3, 5, and 6 being independent.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 2, 3, 5, and 6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The support for the new limitations recited in the claims could not be found in paragraph [0016] of the specification as indicated by applicant. The only support is found in the specification in paragraphs [0032 and 0033], which is believed to be irrelevant. These paragraphs recite "using an amplifier or other such device having a non-linear effect".

## Claim Rejections - 35 USC § 103

2. Claims 2-3 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Na (US PAT # 6,112,069) in view of Yamamoto et al (US PAT # 4,483,000).

Regarding claim 2, Na teaches a modulated transmission signal generator that produces a modulated radio transmission signal by using a local oscillation signal to upconvert the modulated signal to a radio frequency band (see col. 5, lines 60-65); a transmitter that transmits the local oscillation signal used by the modulated transmission signal generator together with the modulated radio transmission signal as a radio signal (see col. 5, lines 50-52 and col. 6, lines 12-20); and a receiver that receives a radio signal from the other radio station and down-converts the received signal to a modulated intermediate frequency band by generating a multiplication component of a modulated radio signal component and local oscillation signal component received from the other radio station (see col. 6, lines 20-27). The claimed "two-way radio communication system for a two-way communication between a first and a second radio stations" reads on a radio receiver in a radio communication system that has a receiver and transmitter (see col. 12, lines 30-32).

Na does not specifically teach the local oscillation signal is linearly superposed on the modulated transmission.

However, Yamamoto teaches a linear modulator responsive to a first signal in the baseband and a second signal in the radio frequency band for linearly modulating the second signal by the first signal to produce the data burst (see col. 2, lines 10-15).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the feature of mixing/regenerating a signal from a first and a second band signal, as taught by Yamamoto, into the Na system in order to eliminate the crosstalk signal which is a common drawback in the digital communication (see col. 1, lines 55-58).

Claims 3 and 5-6 are rejected for the same reasons as discussed above with respect to claim 2.

## Response to Arguments

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rasha S AL-Aubaidi whose telephone number is (571) 272-7481. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad F. Matar, can be reached on (571) 272-7488.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Examiner Rasha S. Al-Aubaidi Art Unit 2642 07/26/2005

AHMAD F. MATAR SUPERVISORY PATENT EXAMINER

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